

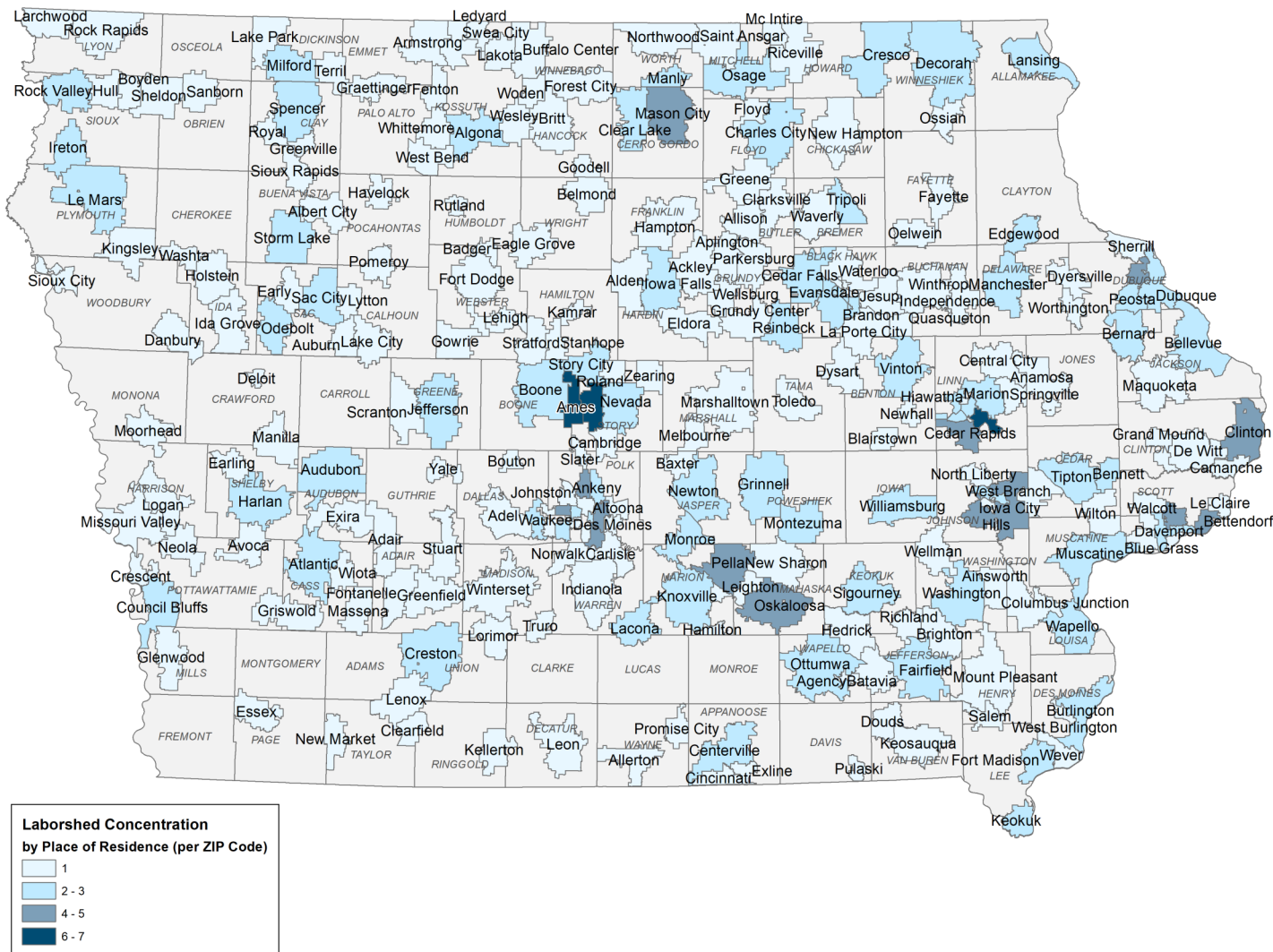
LABOR CHARACTERISTICS

BIOTECHNOLOGY



STATE OF IOWA LABORSHED AREA

CONCENTRATION OF RESPONDENTS WITHIN THE LABORSHED AREA WITH TRANSFERABLE EXPERIENCE/SKILLS BY PLACE OF RESIDENCE



Workers who have transferable experience/skills in the industry are currently commuting an average of 12 miles one way for work. Those who are likely to change/accept employment are willing to commute an average of 25 miles one way for the right employment opportunity.

FOR MORE INFORMATION REGARDING THE STATE OF IOWA, IA LABORSHED, CONTACT:

LABOR CHARACTERISTICS



BIOTECHNOLOGY

ESTIMATED AVAILABLE LABOR PER OCCUPATIONAL CATEGORY:

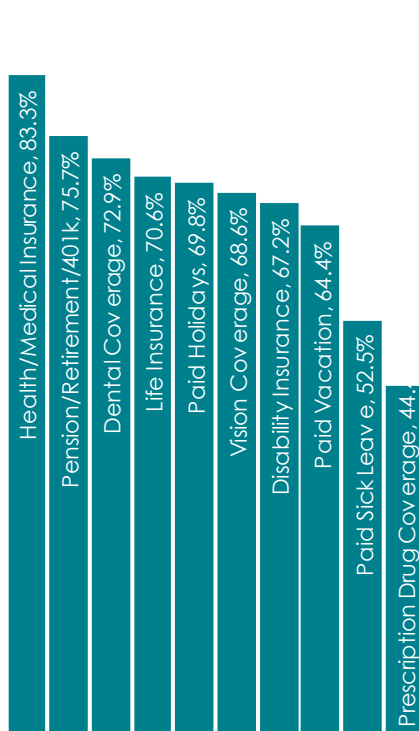
- Agricultural & Food Science Technicians - 0.94%
- Agricultural Engineers - 0.24%
- Agricultural Inspectors - 0.47%
- Agricultural Workers, All Other - 4.47%
- Animal Breeders - 0.24%
- Architectural & Engineering Managers - 1.41%
- Buyers & Purchasing Agents, Farm Products - 0.47%
- Chemical Equipment Operators & Tenders - 0.47%
- Chemists - 0.47%
- Conservation Scientists - 1.18%
- Dietetic Technicians - 1.41%
- Dietitians & Nutritionists - 1.88%
- Engineering Technicians, Except Drafters, All Other - 3.53%
- Engineers, All Other - 14.82%
- Environmental Engineering Technicians - 0.24%
- Environmental Engineers - 0.47%
- Environmental Science & Protection Technicians, Including Health - 1.18%
- Environmental Scientists & Specialists, Including Health - 0.71%
- Farmers, Ranchers, & Other Agricultural Managers - 25.62%
- Farmworkers & Laborers, Crop, Nursery, & Greenhouse - 1.41%
- Farmworkers, Farm, Ranch, & Aquacultural Animals - 1.65%
- Forest & Conservation Technicians - 0.24%
- Industrial Engineers - 0.94%
- Industrial Production Managers - 3.29%
- Inspectors, Testers, Sorters, Samplers, & Weighers - 4.94%
- Life Scientists, All Other - 0.24%
- Life, Physical, & Social Science Technicians, All Other - 4.24%
- Medical & Clinical Laboratory Technicians - 2.59%
- Medical & Clinical Laboratory Technologists - 0.94%
- Medical Scientists, Except Epidemiologists - 0.94%
- Natural Sciences Managers - 0.47%
- Nuclear Medicine Technologists - 0.47%
- Plant & System Operators, All Other - 0.24%
- Separating, Filtering, Clarifying, Precipitating, & Still Machine Operators - 0.47%
- Soil & Plant Scientists - 1.88%
- Supervisors of Farming, Fishing, & Forestry Workers - 0.24%
- Supervisors of Production & Operating Workers - 12%
- Veterinary Technologists & Technicians - 0.47%
- Water & Wastewater Treatment Plant & System Operators - 1.88%
- Zoologists & Wildlife Biologists - 0.24%

UNDEREMPLOYMENT (ESTIMATED):

- Low hours - 0.5%
- Mismatch of skills - 3.8%
- Low income - 0.5%
- Total - 4.5%

(Individuals counted only once when estimating Total Underemployment.)

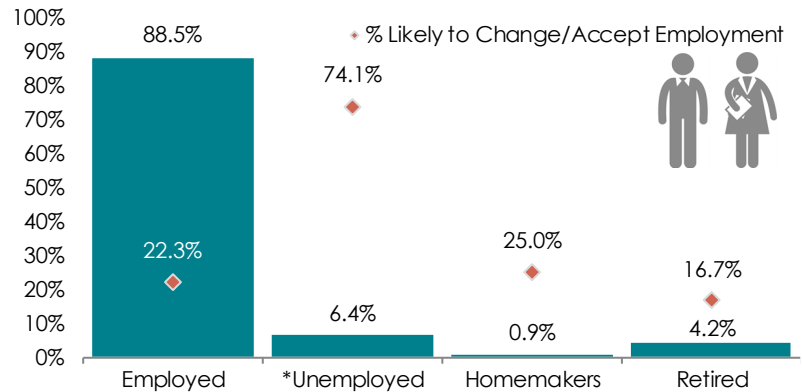
CURRENT BENEFITS:



DESIRED BENEFITS:



ESTIMATED TOTAL BY EMPLOYMENT STATUS (PERCENTAGE):



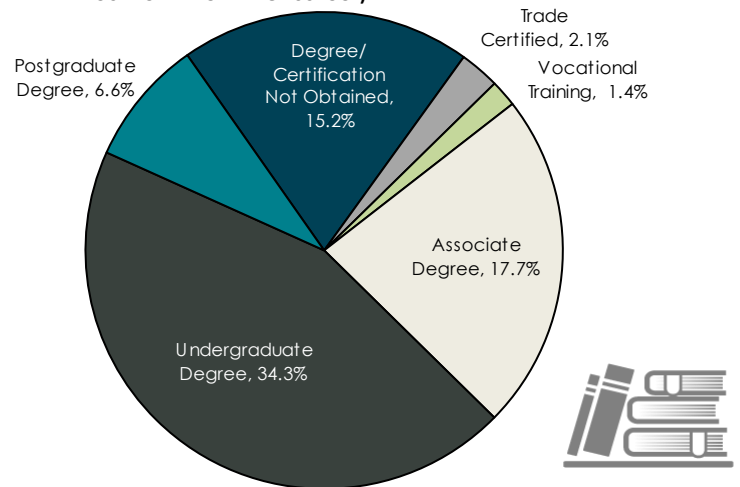
*Employment status is self-identified by the survey respondent. The unemployment percentage does not reflect the unemployment rate published by the U.S. Bureau of Labor Statistics, which applies a stricter definition.

EMPLOYMENT STATS:

- 43.0% paid an hourly wage
- 92.6% are/were employed full-time
- 7.4% are/were employed part-time
- 26.7% are/were self-employed
- 15.7% hold two or more jobs
- Currently working an average of 48 hours/week

EDUCATIONAL LEVEL:

(77.3% HAVE AN EDUCATION BEYOND HIGH SCHOOL)



TOP JOB SEARCH RESOURCES:

(For those seeking employment opportunities, by use.)

- Internet - 60.8%
 - www.indeed.com
 - www.linkedin.com
 - www.monster.com
- Networking through friends, family or acquaintances - 29.4%
- Newspapers - 17.2%
- Private Employment Services - 15.5%

WORKPLACE FLEXIBILITY:

(by percent of interest)

- Job teams - 63.8%
- Cross-training - 61.9%
- Varied shifts - 41.3%
- Job sharing - 35.6%
- Seasonal work - 34.6%
- Temporary work - 31.1%



LABOR CHARACTERISTICS



BIOTECHNOLOGY

OCCUPATION	OCCUPATIONAL CODE	MEAN WAGE	ENTRY WAGE	EXPERIENCED WAGE	MEDIAN WAGE	MEAN ANNUAL SALARY
Agricultural Inspectors	45-2011	\$24.89	\$19.41	\$27.62	\$24.53	\$51,015
Agricultural Workers, All Other	45-2099	\$14.63	\$10.48	\$16.70	\$14.00	\$29,114
Animal Breeders	45-2021	\$16.29	\$12.49	\$18.18	\$14.63	\$30,427
Chemical Equipment Operators and Tenders	51-9011	\$23.17	\$13.36	\$28.07	\$23.19	\$48,229
Chemical Plant and System Operators	51-8091	\$28.97	\$20.51	\$33.20	\$26.92	\$55,989
Cooling and Freezing Equipment Operators and Tenders	51-9193	\$18.28	\$13.81	\$20.51	\$18.32	\$38,106
Dietetic Technicians	29-2051	\$12.92	\$10.36	\$14.20	\$12.09	\$25,152
Dietitians and Nutritionists	29-1031	\$22.88	\$12.49	\$28.07	\$23.29	\$48,444
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	45-2092	\$14.73	\$9.59	\$17.29	\$13.50	\$28,080
Farmworkers, Farm, Ranch, and Aquacultural Animals	45-2093	\$15.22	\$11.04	\$17.32	\$15.49	\$32,226
First-Line Supervisors of Farming, Fishing, and Forestry Workers	45-1011	\$27.90	\$18.58	\$32.57	\$27.75	\$57,729
First-Line Supervisors of Production and Operating Workers	51-1011	\$28.21	\$18.84	\$32.90	\$26.50	\$55,126
Graders and Sorters, Agricultural Products	45-2041	\$14.87	\$12.22	\$16.20	\$14.80	\$30,778
Inspectors, Testers, Sorters, Samplers, and Weighers	51-9061	\$20.43	\$14.04	\$23.62	\$19.16	\$39,860
Nuclear Medicine Technologists	29-2033	\$35.40	\$27.11	\$39.54	\$35.06	\$72,920
Petroleum Pump System Operators, Refinery Operators, and Gaugers	51-8093	\$32.41	\$23.46	\$36.89	\$33.44	\$69,562
Plant and System Operators, All Other	51-8099	\$29.84	\$23.08	\$33.21	\$29.80	\$61,979
Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	51-9012	\$20.48	\$15.22	\$23.11	\$20.68	\$43,014
Veterinary Technologists and Technicians	29-2056	\$17.07	\$12.87	\$19.17	\$15.98	\$33,234
Water and Wastewater Treatment Plant and System Operators	51-8031	\$21.66	\$13.87	\$25.56	\$21.92	\$45,592

The 2019 Iowa Wage data for the State of Iowa Laborshed area was produced by the Labor Force & Occupational Analysis Bureau to provide communities local information on wages by occupation. The source of the wage and employment data is based on the May 2018 OES estimates. Additional occupational wage and employment data can be found at www.iowalmi.gov/laborshed.